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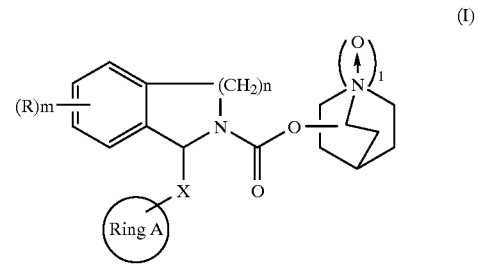
Takeuchi et al.

[11] **Patent Number:** **6,017,927**[45] **Date of Patent:** **Jan. 25, 2000**[54] **QUINUCLIDINE DERIVATIVES AND
MEDICINAL COMPOSITION THEREOF**[75] Inventors: **Makoto Takeuchi; Ryo Naito;
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Isomura**, Ibaraki, all of Japan[73] Assignee: **Yamanouchi Pharmaceutical Co.,
Ltd.**, Tokyo, Japan[21] Appl. No.: **08/860,377**[22] PCT Filed: **Dec. 27, 1995**[86] PCT No.: **PCT/JP95/02713**§ 371 Date: **Aug. 28, 1997**§ 102(e) Date: **Aug. 28, 1997**[87] PCT Pub. No.: **WO96/20194**PCT Pub. Date: **Jul. 4, 1996**[30] **Foreign Application Priority Data**

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[51] **Int. Cl.⁷** **A61K 31/435; C07D 453/02**[52] **U.S. Cl.** **514/305; 546/137**[58] **Field of Search** 546/137; 514/305[56] **References Cited****FOREIGN PATENT DOCUMENTS**A20309424 3/1989 European Pat. Off. .
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& Seas, PLLC[57] **ABSTRACT**

Quinuclidine derivatives represented by general following
general formula (I), salts, N-oxides or quaternary ammonium
salts thereof, and medicinal compositions containing
the same.



The compound has an antagonistic effect on muscarinic M₃
receptors and is useful as a preventive or remedy for
urologic diseases, respiratory diseases or digestive diseases.

7 Claims, No Drawings